Winter **

Flood Control Project Maintenance Levee Inspections

LMA District Cover Sheet

Spring 2019 Levee Inspection Results

Reclamation District No. 1660 Tisdale

Summer **

Fall

Spring

	(March - May)	(June - August)	(September - November)	(December - February)
† Overall LMA Rating (Fall Only)				
	** Non-receipt of Summ Reports may effect ov			
† SPRING INSPECTIONS: Overall maintenance deficiencies are rated	ratings are not determ d using the same criter			ual maintenance
FALL INSPECTIONS: The overall maintena within the attached u			ation and maintenance de ended to be an indiction	
Comments				

Unit Cover Sheet

Spring 2019 Levee Inspection Results

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles
Unit No. 01 Sacramento River	Left	2.94

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/3/2019 - 4/3/2019			
DWR Inspector	Makar Sokol			
Accompanied By	Mike Engelmann			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	2.94	04/03/2019 04/03/2019	Makar Sokol

LM Start		Rating **	Α	Issue No.		14	
LM End		Issue Type +	Ма	Location *			
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item		s & Maintena	nce		0		0
пеш	Manuals		0		0		
DWR ID DWR_RD1660_01_s _ 2013_14							
		Comn	nent Cod	de			
			_				
	Inspector Comment						
The LMA h	nas the O8	M manuals.					

No Photos

LM Start		Rating **	Α	Issue No.		15	
LM End		Issue Type +	Ma	Location *			
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item		cy Supplies &			0		0
пеш	Equipmer	nt			0		0
DWR ID	DWR_RD1	660_01_s _ 201	3_15				
		Comn	nent Cod	le			

No Photos

Inspector Comment The LMA has adequate emergency supplies and equipment.

LM Start		Rating **	Α	Issue No.		16	
LM End		Issue Type +	Ma	Location *			
Category	Catagoria Earthen Levee			GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Flood Preparedness & Training				0		0
пеш					0		0
DWR ID	DWR_RD1	660_01_s _ 201	3_16				
	Comment Code						
		Inspecto	or Comm	ent			

No Photos

The LMA has completed flood fight training in 2018.

Location LS : Land Side N/A : Not Applicable WS: Water Side CR : Crown

Rating A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	2.94	04/03/2019 04/03/2019	Makar Sokol

LM Start	0.02	Rating **	М	Issue No.		7
LM End	2.93	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Vegetatio	39.0631	02°	39.026678°		
item			-121.8378	36°	-121.821932 °	
DWR ID	DWR_RD1	660_01_s _ 201	2_7			
		Comn	nent Cod	le		
V1 : Contro	ol annual g	grass and wee	ds on th	e levee slo	pes a	and
easements	S.					
		Inspecto	or Comm	nent		

No Photos

LM Start	0.02	Rating **	М	Issue No.		6	
LM End	2.93	Issue Type +	Ма	Location *		LS	
Category	Category Earthen Levee			GPS La	atitud	le/Longitude	
Category	egory					End	
Item	Vegetation			39.0631	02°	39.026678	٥
пеш		-121.8378	37°	-121.821932	0		
DWR ID	DWR ID DWR_RD1660_01_s _ 2012_6						
	Comment Code						

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

No Photos

LM Start	0.05	Rating **	М	Issue No.		12	
LM End	0.05	Issue Type +	En	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Encroach	Encroachments			43°	39.062643	0
пеш					57°	-121.837857	0
DWR ID	DWR_RD1	660_01_s _ 201	2_12				
		Comn	nent Cod	le			
BU : Buildi	ng						
		Inspecto	or Comm	nent			

Photo 1 of 1: SP_2019_RD1660_8_12_20190326_00006.jpg

View of the building and fence at the landside toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	2.94	04/03/2019 04/03/2019	Makar Sokol

LM Start	0.06	Rating **	M	Issue No.		26		
LM End	0.13	Issue Type +	En	Location *		LS		
Category	Earthen L	evee		GPS La	atitud	le/Longitude		
Calegory				Start		End		
Item	Encroach	ments		39.0624	19°	39.061521 °		
пеш				-121.8378	83°	-121.837968 °		
DWR ID	DWR ID DWR_RD1660_01_s _ 2019_26							
		Comn	nent Cod	le				
DT : Ditch								
		Inspecto	or Comm	nent				

No Photos

Rating ** Issue No. LM Start 0.09 M 25 0.29 Issue Type + En Location * WS LM End Earthen Levee GPS Latitude/Longitude Category Encroachments 39.062032 ° 39.059157° Item -121.837923 ° -121.838384 ° DWR ID DWR RD1660 01 s 2019 25

Comment Code

TR: Tree or limb

Inspector Comment

The downed orchard trees within the designated floodway should be removed.

No Photos

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiency

Ob : Design & System Obsolescence
En : Enforcement

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	2.94	04/03/2019 04/03/2019	Makar Sokol

LM Start	0.14	0.14 Rating ** M		Issue No.	27			
LM End	0.14	Issue Type +	Ma	Location *				
Category Supplemental				GPS Latitude/Longitude				
Calegory				Start		End		
Item	DWR UCI	P LMA Respo	onsibility	39.06132	22 °	39.061322°		
item				-121.83799	93 °	-121.837993 °		
DWR ID	22489							

Comment Code

Inspector Comment

FS_ID:46670 DS_ID:22489 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - needs proper abandonment.- opening of landside

pipe almost burried.

FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal gravity drainage pipe through the levee, 16.4 feet below the crown. Two corrugated metal cutoff walls. Slide gate in a concrete well at the waterside (WS) toe. (IV A-Winship). USACE bench mark on the top of the headwall at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 133, August 1955, (Station 2+07.8)].

FS Date: 10/10/2013

LM Start	0.14	Rating **	М	Issue No.	27 (cont)
LM End	0.14	Issue Type +	Ma	Location *	



WS view: concrete box on levee slope. No pipe found on berm and river bank.

Photo 2 of 3: UCIP_SP_2019_46670_38106.jpg



WS view: two slide gates in concrete box on levee slope.

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	2.94	04/03/2019 04/03/2019	Makar Sokol

LM Start	0.14	Rating **	М	Issue No.		27 (cont)
LM End	0.14	Issue Type +	Ма	Location *		
Category	ental	GPS Latitude/Longitude				
Calegory				Start		End
Item	DWR UC	IP LMA Respo	nsibility	39.06132	22°	39.061322°
item				-121.83799	93 °	-121.837993 °
DWR ID	22489					

Comment Code

Inspector Comment

FS_ID:46670 DS_ID:22489 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - needs proper abandonment.- opening of landside

pipe almost burried.

FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal gravity drainage pipe through the levee, 16.4 feet below the crown. Two corrugated metal cutoff walls. Slide gate in a concrete well at the waterside (WS) toe. (IV A-Winship). USACE bench mark on the top of the headwall at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 133, August 1955, (Station 2+07.8)].

FS Date: 10/10/2013



WS view: closer view of two slide gates in concrete box on levee slope.

LM Start	1.00	Rating **	M	Issue No.		24					
LM End	1.00	Issue Type +	En	Location *	LS						
Category	Earthen L	.evee		GPS La	titud	e/Longitude					
Category				Start		End					
Encroachments				39.0489	52°	39.048952	0				
Item				-121.8392	52 °	-121.839252	0				
DWR ID	DWR_RD1	660_01_s _ 201	9_24								
	0 10 1										

Comment Code

DE: Debris

Inspector Comment

The debris should be removed from the landside slope.

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	2.94	04/03/2019 04/03/2019	Makar Sokol

LM Start	1.10	Rating **	М	Issue No.		9		
LM End	1.45	Issue Type +	En	Location *		LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Encroach	ments		39.0476	10°	39.043221°		
пеш				-121.8388	02°	-121.835815°		
DWR ID DWR_RD1660_01_s _ 2012_9								
		Comn	nent Cod	le				
DT : Ditch								
		Inspect	or Comm	nent				



View of a ditch along the landside toe.

LM Start	1.33	Rating **	М	Issue No.	8			
LM End	1.36	Issue Type +	Ma	Location *	WS			
Category Supplemental				GPS Latitude/Longitude				
				Start		End		
2017 USACE Erosion Survey,				39.04436	61 °	39.043916°		
Item	DRAFT			-121.8376	54°	-121.837305 °		
DWR ID DWR_RD1660_01_f _ 2018_8								
Comment Code								

Inspector Comment

2017 Site ID: SAC 120.6 L

Status: Eroding

2017 Field Notes: No observed change.

Site History: 2009 - Erosion on levee toe where an old cobble site is failing. 2011 - Some new minor erosion. 2012 - Site extended downstream, bank is being impacted from the weight of the trees. 2013 - Minor new erosion at the toe. 2015 - Minor new erosion at toe.

Photo 1 of 1: SP_2019_RD1660_8_8_20190326_00004.jpg



USACE 2013 Photo #1

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	2.94	04/03/2019 04/03/2019	Makar Sokol

LM Start	1.53	Rating **	М	Issue No.		28			
LM End	1.53	Issue Type +	En	Location *					
Catagony	Category Supplemental				GPS Latitude/Longitude				
Calegory						End			
Item	DWR UC	IP Field Study		39.04230	4 °	39.042304°			
Item			-121.83478	3°	-121.834783 °				
DWR ID	22484								

Comment Code

Inspector Comment

FS_ID:22543 DS_ID:22484 EP_NO: 16476

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - 16-inch old steel pipe abandoned. Abandoned pipe found on landside levee toe.- abandoned power pole on waterside.- mobile diesel pump on channel bank.- attached tin pipes exposed on levee surface.

FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee crown, at an unknown depth. Two 12-inch tin pipes on the surface of the levee slopes, attached to the existing 14-inch steel pipe. Pipe discharges into an irrigation ditch on the landside (LS). Air vent on the LS shoulder. (Plans to grout a 25-foot section of pipeline through the levee authorized under Permit No. 16476, 1995 - Reclamation District No. 1660 [RD1660]).

FS Date: 10/10/2013

LM Start	1.53	Rating **	М	Issue No.	28 (cont)
LM End	1.53	Issue Type +	En	Location *	



WS view: two exposed 12" tin pipes on levee slope. These pipes connected to the pump on river bank.

Photo 2 of 3: UCIP_SP_2019_22543_38141.jpg



WS view: two exposed 12" tin pipes on levee slope.

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	2.94	04/03/2019 04/03/2019	Makar Sokol

LM Start	1.53	Rating **	М	Issue No.		28 (cont)
LM End	1.53	Issue Type +	En	Location *		
Category		Supplemental				e/Longitude
Calegory				Start		End
Item	DWR UC	IP Field Study		39.04230	4 °	39.042304°
пеш				-121.83478	3°	-121.834783 °
DWR ID	22484					

Comment Code

Inspector Comment

FS_ID:22543 DS_ID:22484 EP_NO: 16476

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - 16-inch old steel pipe abandoned. Abandoned pipe found on landside levee toe.- abandoned power pole on waterside.- mobile diesel pump on channel bank.- attached tin pipes exposed on levee surface.

FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee crown, at an unknown depth. Two 12-inch tin pipes on the surface of the levee slopes, attached to the existing 14-inch steel pipe. Pipe discharges into an irrigation ditch on the landside (LS). Air vent on the LS shoulder. (Plans to grout a 25-foot section of pipeline through the levee authorized under Permit No. 16476, 1995 - Reclamation District No. 1660 [RD1660]).

FS Date: 10/10/2013



WS view: two exposed tin pipes joined together and connected to 14inch steel pipe on levee slope.

LM Start	2.36	Rating **	U	Issue No.		Issue No.		23		
LM End	2.36	2.36 Issue Type + Ma Location *		Location *		Location *		e + Ma Location * WS		WS
Category Earthen Levee				GPS La	atitud	le/Longitude				
Calegory			Start		End					
Item	Animal Co	ontrol		39.0342	09°	39.034209°				
item			-121.8253	16°	-121.825316 °					
DWR ID	DWR_RD1660_01_s _ 2019_23									

Comment Code A3: No rodents visible, but rodent burrows visible; need to backfill and

A3 : No rodents visible, but rodent burrows visible; need to backfill an compact or grout burrows.

Inspector Comment



View of a large roddent burrow on the waterside shoulder. Spring 2019.

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	2.94	04/03/2019 04/03/2019	Makar Sokol

LM Start	2.37	Rating **	М	Issue No.		2			
LM End	2.37	Issue Type +	Ма	Location *		LS			
Earthen Levee				GPS La	atitud	le/Longitude			
Category				Start		End			
Item	bility		39.0341	07°	39.034107°				
пеш				-121.8251	52 °	-121.825152 °			
DWR ID	DWR_RD1	660_01_s _ 201	2_2						
		Comn	nent Cod	de					
S1 : Repai	r slope ins	tability.							
			_						
		Inspecto	or Comm	nent					



View of the toe cut by the farmer on the landside.

LM Start	2.38	Rating **	U	Issue No.	21			
LM End	2.38	Issue Type +	Ma	Location *	LS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End		
Item Animal Control				39.0340	32°	39.034032°		
				-121.8251	20°	-121.825120°		
DWR ID	ID DWR_RD1660_01_f _ 2018_21							

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of rodent holes along the landside slope.

LM Start	2.39	Rating **	М	Issue No.		4				
LM End	2.39	Issue Type +	Ma	Location *		LS				
Category	Earthen Levee					le/Longitude				
Category				Start		End				
Slope Stability				39.0338	58°	39.033858	0			
item	item				-121.824985 °		0			
DWR ID	DWR_RD1	660_01_f _ 201	8_4							
		Comn	nent Cod	le						
S1 : Repai	r slope ins	tability.								
	Inspector Comment									

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	2.94	04/03/2019 04/03/2019	Makar Sokol

LM Start	2.45	Rating **	М	Issue No.		22		
LM End	2.45	Issue Type +	En	Location *	WS			
Category	Cotogon Earthen Levee					le/Longitude		
Calegory		Start		End				
Item	Encroach	ments		39.03318	33°	39.033183 °		
пеш			-121.824603 ° -121.824603					
DWR ID DWR_RD1660_01_s _ 2019_22								

Comment Code

PR: Prunings

Inspector Comment

Large pile of prunings should be removed from the designated floodway.



View of a large pile of prunings within the designated floodway. Spring 2019.

LM Start	2.57	Rating **	М	Issue No.		20
LM End	2.57	Issue Type +	Ma	Location *		LS
Category	Earthen L	GPS Latitude/Longitude				
Calegory				Start		End
Item	Animal Co	ontrol		39.0316	25 °	39.031625°
item	-121.823492 °					-121.823492 °
DWR ID	DWR ID DWR_RD1660_01_s _ 2018_20					

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Photo 1 of 1: SP_2019_RD1660_8_20_20190326_00008.jpg



View of the rodent holes along the landside slope.

LM Start	2.58	Rating **	М	Issue No.		3
LM End	2.58	Issue Type +	En	Location *	LS	
Category Earthen Levee				GPS Latitude/Longitude		
Category				Start		End
Item	Encroach	ments		39.03140)5 °	39.031405°
item				-121.82340)3 °	-121.823403 °
DWR ID	DWR_RD1	660_01_s _ 201	2_3			·

Comment Code

EQ: Equipment

Inspector Comment

Photo 1 of 1: SP_2019_RD1660_8_3_20190326_00003.jpg



View of equipment along the landside slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	2.94	04/03/2019 04/03/2019	Makar Sokol

LM Start	2.61	Rating **	М	Issue No.	18		
LM End	2.61	Issue Type +	En	Location *	LS		
Category	Earthen L	evee	GPS La	tituc	le/Longitude		
Calegory	Start End						
Item	Encroach	ments		39.03102	20°	39.031020°	
пеш				-121.82309	91 °	-121.823091 °	
DWR ID DWR_RD1660_01_f _ 2016_18							
Comment Code							

DE: Debris

Inspector Comment

The concrete pipes should be removed from the landside toe.



View of the concrete pipes within the levee easement.

LM Start	2.62	Rating **	М	Issue No.		29
LM End	2.62	Issue Type +	En	Location *		
Category	Suppleme	GPS Latitude/Longitude				
Calegory						End
Item	DWR UC	IP Field Study		39.0309	35°	39.030935 °
iteiii				-121.8230	22 °	-121.823022 °
DWR ID	22492					

Comment Code

Inspector Comment

FS_ID:22632 DS ID:22492 EP_NO: 10012

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - abandoned pumphouse on landside toe. Needs confirmation from LMA or DWR Inspector about abandonment of

pumphouse.- headwall on channel bank.

FIELD_STRUCT_DESC: 24-inch steel irrigation discharge pipe through the levee, 24 feet below the crown. Slide gate on the waterside (WS) shoulder. Abandoned pump house on the landside (LS) slope. (Retention of a 24-inch steel pipe through the levee, 24 feet below the crown, slide gate, and pump house authorized under Automatic Board Order (ABO) issued as Permit No. 10012, 1974 - Lawrence C. Harris). [Additional Reference(s): DWR Levee Log, 2005].

FS Date: 10/10/2013

Photo 1 of 3: UCIP_SP_2019_22632_38178.jpg



WS view: gate valve handle (center) on levee slope.

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	2.94	04/03/2019 04/03/2019	Makar Sokol

LM Start	2.62	Rating **	М	Issue No.		29 (cont)	
LM End	2.62	Issue Type +	En	Location *			
Category	Supplemental Supplemental				GPS Latitude/Longitude		
Calegory				Start		End	
Item	DWR UC	IP Field Study		39.03093	5°	39.030935	0
пеш				-121.823022	2°	-121.823022	0
DWR ID	22492						

Inspector Comment

Comment Code

FS_ID:22632 DS_ID:22492 EP_NO: 10012

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: - abandoned pumphouse on landside toe. Needs confirmation from LMA or DWR Inspector about abandonment of

pumphouse.- headwall on channel bank.

FIELD_STRUCT_DESC: 24-inch steel irrigation discharge pipe through the levee, 24 feet below the crown. Slide gate on the waterside (WS) shoulder. Abandoned pump house on the landside (LS) slope. (Retention of a 24-inch steel pipe through the levee, 24 feet below the crown, slide gate, and pump house authorized under Automatic Board Order (ABO) issued as Permit No. 10012, 1974 - Lawrence C. Harris). [Additional Reference(s): DWR Levee Log, 2005].

FS Date: 10/10/2013

LM Start	2.62	Rating **	М	Issue No.	29 (cont)
LM End	2.62	Issue Type +	En	Location *	

Photo 2 of 3: UCIP_SP_2019_22632_38177.jpg



WS view: inlet steel pipe (right) immerged into channel water.

Photo 3 of 3: UCIP_SP_2019_22632_38176.jpg



WS view: closer view of inlet steel pipe immerged into channel water.

Pipe was supported by concrete headwall.

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	2.94	04/03/2019 04/03/2019	Makar Sokol

LM Start	2.63	Rating **	М	Issue No.		5
LM End	2.66	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Slope Sta	bility		39.0308	91 °	39.030436°
пеш				-121.8229	56°	-121.822617°
DWR ID	DWR_RD1	660_01_s _ 201	2_5			
		Comn	nent Cod	le		
S1 : Repai	r slope ins	tability.				
		Inspecto	or Comm	nent		

No Photos

Rating ** Issue No. LM Start 2.84 M 19 2.84 Issue Type + Ma Location * WS LM End Earthen Levee GPS Latitude/Longitude Category End Encroachments 39.027971° 39.027971° Item -121.821771 ° -121.821771 DWR ID DWR_RD1660_01_s _ 2019_19 Comment Code TR: Tree or limb

Inspector Comment

No Photos

The tree should be removed from the waterside slope.

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiency

Ob : Design & System Obsolescence

En : Enforcement

Unit Cover Sheet

Spring 2019 Levee Inspection Results

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles
Unit No. 02 Sutter Bypass	Right	9.10

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/2/2019 - 4/2/2019			
DWR Inspector	Makar Sokol			
Accompanied By	Andy Duffey RD 1660			
	Mike Engelmann			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	9.10	04/02/2019 04/02/2019	Makar Sokol

LM Start	0.00	Rating **	М	Issue No.		6	
LM End	0.00	Issue Type +	Ma	Location *	LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Itom	Slope Stability			39.0329	10°	39.032910°	
item				-121.743665 °		-121.743665 °	
DWR ID	DWR_RD1	660_02_f _ 201	6_6				
		Comn	nent Cod	le			
S1 : Repai	r slope ins	tability.					
Inspector Comment							

LM Start	0.00	Rating **	М	Issue No.	6 (cont)
LM End	0.00	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP_2019_RD1660_9_6_20190326_00001.jpg



View of the slope instability looking from the landside toe.

Photo 2 of 2: SP_2019_RD1660_9_6_20190326_00002.jpg



Another view of the slope instability looking from the levee crown.

Photo 1 of 1: SP_2019_RD1660_9_1_20190411_00016.jpg

LM Start	0.00	Rating **	Α	Issue No.		1	
LM End	2.38	Issue Type +	Ма	Location *	LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		39.033004°		39.065780°	
пеш				-121.743451 °		-121.757099°	
DWR ID	DWR_RD1	660_02_s _ 201	2_1				
		Comn	nent Cod	le			
V1 : Contro	ol annual g	rass and wee	ds on th	e levee slo	pes a	and	
easements.							
Inspector Comment							
The vegetation is well maintained on the landside slope.							



View of the vegetation on the landside slope. Spring 2019.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	9.10	04/02/2019 04/02/2019	Makar Sokol

LM Start	0.00	Rating **	Α	Issue No.		2
LM End	2.38	Issue Type +	Ma	Location *		WS
Category Earthen Levee				GPS Latitude/Longitude		
Calegory				Start		End
Item	Vegetation			39.03300	05°	39.065774°
пеш				-121.7434	50°	-121.757090 °
DWR ID DWR_RD1660_02_s _ 2012_2						

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

The vegetation is well maintained on the waterside slope.



View of the vegetation on the waterside slope. Spring 2019.

LM Start	0.02	Rating **	A/W	Issue No.		24
LM End	0.02	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
Calegory				Start		End
Item	DWR UCIP LMA Responsibility			39.033214°		39.033214°
пеш				-121.7435	41 °	-121.743541 °
DWR ID	22495					

Comment Code

Inspector Comment

FS_ID:22663 DS_ID:22495 EP_NO: 10020

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: - pipe/opening not visible as it was submerged into water on both sides.- it seems that 36-inch concrete pipe through the levee. It needs confirmation from LMA/DWR Inspector.- USED bench mark on landside concrete vault.

FIELD_STRUCT_DESC: [Reclamation District No. 1660 (RD1660) Drainage Pump] 48-inch by 84-inch reinforced concrete outfall structure through the levee, 34 feet below the crown. Slide gate in a 4-foot by 8-foot concrete riser on the waterside (WS) slope. (Retention of a 4-foot by 7-foot concrete culvert outfall drain through the levee, 34 feet below the crown, and a slide gate in a concrete well authorized under Automatic Board Order (ABO) issued as Permit No. 10020, 1974 - Leo Bandoni, care of John Digardi). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 133, August 1955, (Station 1044+60), two 4-foot by 7-foot concrete tunnels referenced]. FS Date: 10/10/2013

Photo 1 of 3: UCIP_SP_2019_22663_38248.jpg



WS view: 4 ft. by 8 ft. concrete box with slide gate on levee slope. USED bench mark on top of the box.

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	9.10	04/02/2019 04/02/2019	Makar Sokol

LM Start	0.02	Rating **	A/W	Issue No.		24 (cont)
LM End	0.02	Issue Type +	Ма	Location *		
Category	Supplemental			GPS Latitude/Longitude		
Calegory				Start		End
Item	DWR UC	DWR UCIP LMA Responsibility			4 °	39.033214
пеш				-121.74354	1 °	-121.743541
DWR ID	22495					

Comment Code

Inspector Comment

FS_ID:22663 DS_ID:22495 EP_NO: 10020

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: - pipe/opening not visible as it was submerged into water on both sides.- it seems that 36-inch concrete pipe through the levee. It needs confirmation from LMA/DWR Inspector.- USED bench mark on landside concrete yault.

FIELD_STRUCT_DESC: [Reclamation District No. 1660 (RD1660) Drainage Pump] 48-inch by 84-inch reinforced concrete outfall structure through the levee, 34 feet below the crown. Slide gate in a 4-foot by 8-foot concrete riser on the waterside (WS) slope. (Retention of a 4-foot by 7-foot concrete culvert outfall drain through the levee, 34 feet below the crown, and a slide gate in a concrete well authorized under Automatic Board Order (ABO) issued as Permit No. 10020, 1974 - Leo Bandoni, care of John Digardi). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 133, August 1955, (Station 1044+60), two 4-foot by 7-foot concrete tunnels referenced]. FS Date: 10/10/2013

LM Start	0.02	Rating **	A/W	Issue No.	24 (cont)
LM End	0.02	Issue Type +	Ma	Location *	



WS view: inside view of concrete box on levee slope. Slide gate in concrete box.

Photo 3 of 3: UCIP SP 2019 22663 38246.jpg



WS view: closer view of U shaped concrete headwall in bypass channel. Pipe not visible.

* Location

LS: Land Side N/A: Not Applicable

WS: Water Side

CR: Crown

* Rating

A: Acceptable

M: Minimally Acceptable

U: Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	9.10	04/02/2019 04/02/2019	Makar Sokol

LM Start	1.43	Rating **	С	Issue No.		23
LM End	1.43	Issue Type +	Ma	Location *	LS	
Category	GPS Latitude/Longitude					
Calegory	Category					End
Item	Animal Control				87°	39.052687
item				-121.75172	20°	-121.751720
DWR ID DWR_RD1660_02_f _ 2017_23						

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

The rodent holes have been backfilled.

No Photos

Rating ** Issue No. LM Start 2.38 13 Location * 9.10 Issue Type + Ма WS LM End Earthen Levee GPS Latitude/Longitude Category End Vegetation 39.065774° 39.137114° Item -121.757099° -121.834490 ° DWR ID DWR_RD1660_02_s _ 2019_13

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

No Photos

LM Start	2.38	Rating **	M	Issue No.		7	
LM End	9.10	Issue Type +	Ма	Location *		LS	
Category	evee	GPS Latitude/Longitude					
Calegory				Start		End	
Item	Vegetatio	n		39.06578	0°	39.137114	٥
iteiii				-121.75712	0°	-121.834490	٥
DWR ID	DWR_RD1	660_02_s _ 201	9_7				
		_	. ^				

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

No Photos

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	9.10	04/02/2019 04/02/2019	Makar Sokol

LM Start	5.10	Rating **	М	Issue No.		25
LM End	5.10	Issue Type +	En	Location *		
Category	ental	GPS La	atitud	e/Longitude		
Calegory		Start		End		
Item	DWR UC	39.1025	12 °	39.102512 °		
item				-121.7749	60 °	-121.774960 °
DWR ID	22499					

Comment Code

Inspector Comment

FS_ID:22705 DS_ID:22499 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Pressure relief valve on landside levee slope.Pump platform under construction for upgrade (raising platform)Look for new

upgrade/revision permit.

FIELD_STRUCT_DESC: 18-inch steel irrigation discharge pipe through the levee, 5.8 feet below the crown. Pump in the channel. Gate valve on the landside (LS) berm. Pipe discharges into a 4-foot by 4-foot concrete box on the LS berm. 2-inch electrical conduit of an unknown material through the levee, 3 feet below the crown. (Plans for construction of a pumping plant with an 18-inch discharge pipe through the levee authorized under Permit No. 4215, 1963 - S. A. McKeehan). [Additional Reference(s): DWR Levee Log, 2005].

FS Date: 10/15/2013

LM Start	5.10	Rating **	М	Issue No.	25 (cont)
LM End	5.10	Issue Type +	En	Location *	

Photo 1 of 3: UCIP_SP_2019_22705_38394.jpg



WS view: pump platform under construction.

Photo 2 of 3: UCIP_SP_2019_22705_38393.jpg



WS view: pump platform under construction. 18" steel pipe and 2" electric conduit under steel platform.

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	9.10	04/02/2019 04/02/2019	Makar Sokol

LM Start	5.10	Rating **	М	Issue No.		25 (cont)
LM End	5.10	Issue Type +	En	Location *		
Category				GPS Latitude/Longitude		
Calegory	Category					End
Item	DWR UC	IP Field Study		39.1025	12°	39.102512°
item				-121.7749	60°	-121.774960 °
DWR ID 22499						

Inspector Comment

Comment Code

FS_ID:22705 DS_ID:22499 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Pressure relief valve on landside levee slope.Pump platform under construction for upgrade (raising platform)Look for new upgrade/revision permit.

FIELD_STRUCT_DESC: 18-inch steel irrigation discharge pipe through the levee, 5.8 feet below the crown. Pump in the channel. Gate valve on the landside (LS) berm. Pipe discharges into a 4-foot by 4-foot concrete box on the LS berm. 2-inch electrical conduit of an unknown material through the levee, 3 feet below the crown. (Plans for construction of a pumping plant with an 18-inch discharge pipe through the levee authorized under Permit No. 4215, 1963 - S. A. McKeehan). [Additional Reference(s): DWR Levee Log, 2005].

FS Date: 10/15/2013

Photo 3 of 3 : UCIP_SP_2019_22705_38392.jpg



LS view: pressure relief valve on levee slope.

LM Start	5.12	Rating **	A/W	Issue No.		9	
LM End	5.12	Issue Type +	Ob	Location *			
Category	ental	GPS La	titud	e/Longitude			
Category	Category					End	
Item	2017 Stor	2017 Storm Damage			37°	39.102537	0
item				-121.7753	90°	-121.775390	0
DWR ID	DWR_RD1	660_02_f _ 201	7_9				

Comment Code

Inspector Comment

Levee Evaluation Comments

Description: Site ID No:157

Site Designation:RD 1660-01 Repair Type: Seepage (B) Rating:Area of Concern Field Date:8/3/2017

Notes: small bulges, levee prone to seepage



* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	9.10	04/02/2019 04/02/2019	Makar Sokol

LM Start	5.12	Rating **	A/W	Issue No. 9 (cont)		9 (cont)
LM End	5.12	Issue Type +	Ob	Location *		
Category	ental	GPS Latitude/Longitude				
Calegory	Salegory					End
Itom	2017 Storm Damage			39.1025	37°	39.102537°
пеш	-121.775390 ° -121.775390					
DWR ID DWR_RD1660_02_f _ 2017_9						
	Comment Code					

Inspector Comment

Levee Evaluation Comments

Description: Site ID No:157

Site Designation:RD 1660-01 Repair Type: Seepage (B) Rating:Area of Concern Field Date:8/3/2017

Notes: small bulges, levee prone to seepage

LM Start	5.12	Rating **	A/W	Issue No.	9 (cont)
LM End	5.12	Issue Type +	Ob	Location *	



Photo 3 of 3: LEVAL_SP_2019_157_4042.jpg



N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type
Ma: Maintenance Deficiency
Ob: Design & System Obsolescence
En: Enforcement

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	9.10	04/02/2019 04/02/2019	Makar Sokol

LM Start	5.22	Rating **	М	Issue No.		8	
LM End	5.22	Issue Type +	Ma	Location *	WS		
Category	evee	GPS Latitude/Longitude					
Calegory	egory			Start		End	
Item	Encroachments			39.10380	00°	39.103800 °	
пеш				-121.77632	20°	-121.776320°	
DWR ID	DWR ID DWR_RD1660_02_s _ 2019_8						
Comment Code							
TR : Tree	TR: Tree or limb						

Inspector Comment

The fallen tree should be removed from the waterside slope.

No Photos

Rating ** A/W Issue No. LM Start 5.66 21 5.66 Issue Type + Ob Location * LM End Supplemental GPS Latitude/Longitude Category 2017 Storm Damage 39.108209° 39.108209° Item -121.782280 ° -121.782280 ° DWR ID DWR RD1660 02 f 2017 21

Comment Code

Inspector Comment

Levee Evaluation Comments

Description: Site ID No:173

Site Designation:248-17 Repair Type: Seepage

Repair Type: Se Rating: Field Date:

Notes:

No Photos

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma: Maintenance Deficiency

Ob: Design & System Obsolescence

En: Enforcement

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	9.10	04/02/2019 04/02/2019	Makar Sokol

LM Start	6.19	Rating **	М	Issue No.		12
LM End	6.19	Issue Type +	Ма	Location *		WS
Category	evee	GPS Latitude/Longitude				
Calegory	egory					End
Item	Encroach	ments		39.1126	70°	39.112670°
пеш				-121.7903	10°	-121.790310 °
DWR ID DWR_RD1660_02_s _ 2019_12						
Comment Code						

TR: Tree or limb

Inspector Comment

The fallen trees should be removed from the waterside slope.

LM Start	7.21	Rating **	М	Issue No. 14		14
LM End	7.21	Issue Type +	Ма	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
Calegory			Start		End	
Item	Encroach	Encroachments			60°	39.121260°
пеш				-121.8058	50°	-121.805850 °
חואש וח	DWD DD1	660 02 c 201	0.14			·

DWR ID DWR_RD1660_02_s _ 2019_14 Comment Code

AV: Abandoned vehicles

Inspector Comment

The abandoned vehicle should be removed from the waterside slope.

No Photos

No Photos

No Photos

LM Start	7.44	Rating **	М	Issue No.		15	
LM End	7.44	Issue Type + Ma Location *		Location *		WS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Encroach	ments		39.1231	50°	39.123150	0
пеш				-121.8092	30 °	-121.809230	0
DWR ID	DWR_RD1	660_02_s _ 201	9_15				
		Comn	nent Cod	le			

DE: Debris

Inspector Comment

The fridge should be removed from the waterside slope.

Location LS : Land Side N/A : Not Applicable WS: Water Side CR : Crown

Rating

A : Acceptable M : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	9.10	04/02/2019 04/02/2019	Makar Sokol

LM Start	7.66	Rating **	М	Issue No.	lo. 16		
LM End	7.66	Issue Type +	Ma	Location *	WS		
Category	evee	GPS Latitude/Longitude					
Calegory	egory					End	
Item	Encroach	ments		39.1250	60°	39.125060 °	
пеш	-121.812					-121.812690 °	
DWR ID DWR_RD1660_02_s _ 2019_16							
Comment Code							

TR: Tree or limb

Inspector Comment

The fallen trees should be removed from the waterside slope.

LM Start	7.80	Rating **	М	Issue No.		17	
LM End	7.80	Issue Type +	Ма	Location *	WS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory		Start		End			
Item	Encroach		39.1262	40°	39.126240°		
пеш				-121.8148	10°	-121.814810 °	
DWR ID DWR_RD1660_02_s _ 2019_17							
Comment Code							

TR: Tree or limb

Inspector Comment

The fallen tree should be removed from the waterside slope.

LM Start	8.06	Rating **	M	Issue No.		18		
LM End	8.06	Issue Type +	Ma	Location *	WS			
Category	evee	GPS Latitude/Longitude						
Calegory			Start		End			
Item	Encroach	ments		39.12837	'0 °	39.128370 °		
пеш				-121.81868	80 °	-121.818680 °		
DWR ID	DWR ID DWR_RD1660_02_s _ 2019_18							
	0 10 1							

Comment Code

TR: Tree or limb

Inspector Comment

The fallen trees should be removed from the waterside slope.

No Photos

No Photos

No Photos

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	9.10	04/02/2019 04/02/2019	Makar Sokol

LM Start	9.07	Rating **	A/W	Issue No.		26		
LM End	9.07	Issue Type +	Ма	Location *				
Supplemental				GPS Latitude/Longitude				
Category				Start		End		
Item	DWR UCI	P LMA Respo	onsibility	39.13686	61 °	39.136861 °		
пеш			-121.8339	74 °	-121.833974°			
DWR ID	22505							

Comment Code

Inspector Comment

FS_ID:22708 DS_ID:22505 EP NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: - inlet structure 160 ft off the levee center on landside

drainage ditch.

FIELD_STRUCT_DESC: 48-inch steel gravity drainage pipe through the levee, 29 feet below the crown. Slide gate and concrete bulkhead on the riverbank. Staff gage on the waterside (WS) berm. (Retention of a 48-inch corrugated metal pipe (CMP) through the levee, 29 feet below the crown, a slide gate, and a concrete bulkhead authorized under Automatic Board Order (ABO) No. 10021, 1974 - Butte Slough Irrigation Company, care of Tarke Warehouse). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 133, August 1955, (Station 433+43), 48-inch CMP referenced].

FS Date: 10/15/2013

LM Start	9.07	Rating **	A/W	Issue No.	26 (cont)
LM End	9.07	Issue Type +	Ma	Location *	



WS view: overview of concrete box on channel bank. It looks like a fish ladder. Pipe discharges into this box.

Photo 2 of 3: UCIP SP 2019 22708 38405.jpg



WS view: concrete box on channel bank. Pipe end with slide gate. Pipe discharges into this box.

Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	9.10	04/02/2019 04/02/2019	Makar Sokol

LM Start	9.07	Rating **	A/W	Issue No.		26 (cont)	
LM End	9.07	Issue Type +	Ма	Location *			
Category				GPS Latitude/Longitude			
Calegory			Start		End		
Item	DWR UCI	IP LMA Respo	nsibility	39.13686	°	39.136861°	
пеш				-121.833974	۱°	-121.833974°	
DWR ID	22505					·	

Comment Code

Inspector Comment

FS_ID:22708 DS_ID:22505 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: - inlet structure 160 ft off the levee center on landside

drainage ditch.

FIELD_STRUCT_DESC: 48-inch steel gravity drainage pipe through the levee, 29 feet below the crown. Slide gate and concrete bulkhead on the riverbank. Staff gage on the waterside (WS) berm. (Retention of a 48-inch corrugated metal pipe (CMP) through the levee, 29 feet below the crown, a slide gate, and a concrete bulkhead authorized under Automatic Board Order (ABO) No. 10021, 1974 - Butte Slough Irrigation Company, care of Tarke Warehouse). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 133, August 1955, (Station 433+43), 48-inch CMP referenced].

FS Date: 10/15/2013



WS view: concrete box on channel bank. Pipe discharges into this box. A slide gate inside this box.